

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	12	("6525230") or ("6472572") or ("6462243") or ("5998679") or ("5334777") or ("5243098")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/11 18:35
L2	4094	((568/671) or (568/694) or (568/695) or (568/895) or (568/896) or (568/840) or (423/463) or (423/491) or (423/593) or (423/594) or (423/595) or (423/598) or (423/599)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/02/11 18:37
L3	444313	methane or alkane or ethane or propane or butane or pentane	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/11 18:38
L4	69349	metal\$4 near2 halide	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/11 18:38
L5	61	I2 and I3 and I4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/11 18:39
L6	1654349	oxide	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/11 18:39
L7	37	I5 and I6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/11 19:28
L8	37	waycullis.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/11 19:29
L9	16	I3 and I8	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/11 19:34

L10	177614	bromine	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/11 19:35
L11	4510	I3 and I4 and I6 and I10	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/11 19:35
L12	4046520	oxygen or air	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/11 19:36
L13	3879	I11 and I12	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/11 19:38
L14	44567	(reduced near2 metal) or (valence\$2 near2 state)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/11 19:39
L15	240	I13 and I14	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/11 19:40
L16	1415336	alcohol or ether	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/11 19:40
L17	216	I15 and I16	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/11 19:45
L18	4287620	water or steam or h2o!	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/11 19:45
L19	208	I17 and I18	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/11 20:35

L20	16	regenerat\$6 near5 bromide near2 salt	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/11 20:43
L21	1	(second near2 bromide near2 salt) near10 bromine	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/11 20:45
L22	363	(bromide near2 salt) near10 bromine	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/11 20:46
L23	118	I3 and I22	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/11 20:46
L24	116	I23 not I19	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/11 20:47
L25	79	I6 and I24	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/11 20:49
L26	3	I14 and I25	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/11 20:48

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NEWS 5 DEC 14 2006 MeSH terms loaded for MEDLINE file segment of TOXCENTER  
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NEWS 7 DEC 21 IPC search and display fields enhanced in CA/CAPLUS with the  
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NEWS 8 DEC 23 New IPC8 SEARCH, DISPLAY, and SELECT fields in USPATFULL/  
USPAT2  
NEWS 9 JAN 13 IPC 8 searching in IFIPAT, IFIUDB, and IFICDB  
NEWS 10 JAN 13 New IPC 8 SEARCH, DISPLAY, and SELECT enhancements added to  
INPADOC  
NEWS 11 JAN 17 Pre-1988 INPI data added to MARPAT  
NEWS 12 JAN 17 IPC 8 in the WPI family of databases including WPIFV  
NEWS 13 JAN 30 Saved answer limit increased  
NEWS 14 JAN 31 Monthly current-awareness alert (SDI) frequency  
added to TULSA

NEWS EXPRESS JANUARY 03 CURRENT VERSION FOR WINDOWS IS V8.01,  
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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 21:04:00 ON 11 FEB 2006

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

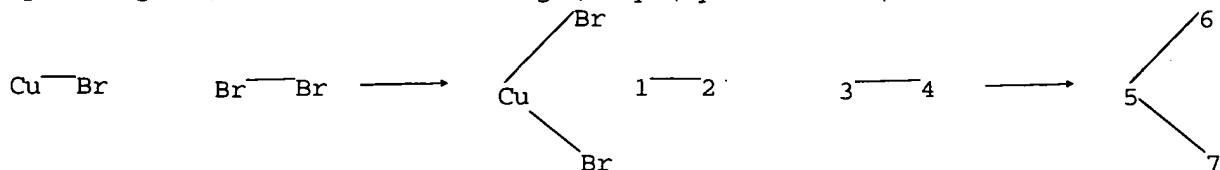
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```
*****
*
* The CA roles and document type information have been removed from
* the IDE default display format and the ED field has been added,
* effective March 20, 2005.  A new display format, IDERL, is now
* available and contains the CA role and document type information.
*
*****
```

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

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Uploading C:\Documents and Settings\RKeys\My Documents\10750984.str



```
chain nodes :
1 2 3 4 5 6 7
chain bonds :
1-2 3-4 5-6 5-7
exact bonds :
1-2 3-4 5-6 5-7
```

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Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS

fragments assigned product role:

containing 5

fragments assigned reactant/reagent role:

containing 1

containing 3

L1 STRUCTURE UPLOADED

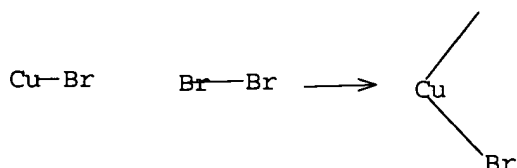
=> que L1

L2 QUE L1

=> d

L2 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

L2 QUE L1

=> file reaction

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.44

0.65

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=> s 12

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SCREENING COMPLETE - 0 REACTIONS TO VERIFY FROM

0 DOCUMENTS

100.0% DONE 0 VERIFIED 0 HIT RXNS

0 DOCS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*

PROJECTED VERIFICATIONS: 0 TO 0

PROJECTED ANSWERS: 0 TO 0

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SAMPLE SEARCH INITIATED 21:05:05 FILE 'CHEMINFORMRX'  
SCREENING COMPLETE - 0 REACTIONS TO VERIFY FROM 0 DOCUMENTS

100.0% DONE 0 VERIFIED 0 HIT RXNS 0 DOCS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED VERIFICATIONS: 0 TO 0  
PROJECTED ANSWERS: 0 TO 0

FULL SEARCH INITIATED 21:05:07 FILE 'DJSMONLINE'  
SCREENING COMPLETE - 0 REACTIONS TO VERIFY FROM 0 DOCUMENTS

100.0% DONE 0 VERIFIED 0 HIT RXNS 0 DOCS  
SEARCH TIME: 00.00.01

FULL SEARCH INITIATED 21:05:09 FILE 'PS'  
SCREENING COMPLETE - 0 REACTIONS TO VERIFY FROM 0 DOCUMENTS

100.0% DONE 0 VERIFIED 0 HIT RXNS 0 DOCS  
SEARCH TIME: 00.00.01

L3 0 L2

=> s l2 ful

FULL SEARCH INITIATED 21:05:14 FILE 'CASREACT'  
SCREENING COMPLETE - 14 REACTIONS TO VERIFY FROM 4 DOCUMENTS

100.0% DONE 14 VERIFIED 0 HIT RXNS 0 DOCS  
SEARCH TIME: 00.00.01

FULL SEARCH INITIATED 21:05:15 FILE 'CHEMINFORMRX'  
SCREENING COMPLETE - 0 REACTIONS TO VERIFY FROM 0 DOCUMENTS

100.0% DONE 0 VERIFIED 0 HIT RXNS 0 DOCS  
SEARCH TIME: 00.00.02

FULL SEARCH INITIATED 21:05:18 FILE 'DJSMONLINE'  
SCREENING COMPLETE - 0 REACTIONS TO VERIFY FROM 0 DOCUMENTS

100.0% DONE 0 VERIFIED 0 HIT RXNS 0 DOCS  
SEARCH TIME: 00.00.01

FULL SEARCH INITIATED 21:05:19 FILE 'PS'  
SCREENING COMPLETE - 0 REACTIONS TO VERIFY FROM 0 DOCUMENTS

100.0% DONE 0 VERIFIED 0 HIT RXNS 0 DOCS  
SEARCH TIME: 00.00.01

L4 0 L2

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	362.09	362.74

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FILE LAST UPDATED: 10 Feb 2006 (20060210/ED)

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=> s bromine and bromide salt

50444 BROMINE  
259443 BROMIDE  
757227 SALT  
560 BROMIDE SALT  
(BROMIDE(W) SALT)

L5 37 BROMINE AND BROMIDE SALT

=> d 1-37 ti

L5 ANSWER 1 OF 37 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Catalytic conversion of alkanes into liquid oxygenates

L5 ANSWER 2 OF 37 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Enrichment of **Bromine** in Sea-Bittern with Recovery of Other Marine Chemicals

L5 ANSWER 3 OF 37 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Green technology in organic synthesis: Environmentally friendly waste free bromination of substituted acetophenones, benzocyclic ketones, and aromatic compounds

L5 ANSWER 4 OF 37 CAPLUS COPYRIGHT 2006 ACS on STN  
TI New Conformations and Binding Modes in Halogen-Bonded and Ionic Complexes of 2,3,5,6-Tetra(2'-pyridyl)pyrazine

L5 ANSWER 5 OF 37 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Zeolite catalyzed Waste-free Bromination of Aromatic Compounds

L5 ANSWER 6 OF 37 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Method to inhibit growth of microorganisms in aqueous systems and on substrates using a persulfate and a bromide

L5 ANSWER 7 OF 37 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Production method of bromo substitution azetidinone chemical compound

L5 ANSWER 8 OF 37 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Preparation of stabilized active **bromine** biocide solutions

L5 ANSWER 9 OF 37 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Control of *Pseudomonas aeruginosa* biofilms with **bromine**-based microbicides



- L5 ANSWER 10 OF 37 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Effect of Temperature on Local Structure in Poly(ethylene oxide)-Zinc Bromide Salt Complexes
- L5 ANSWER 11 OF 37 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Equilibrium and Kinetics Studies of Reactions of Manganese Acetate, Cobalt Acetate, and Bromide Salts in Acetic Acid Solutions
- L5 ANSWER 12 OF 37 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Sulfamate stabilization of a **bromine** biocide in water
- L5 ANSWER 13 OF 37 CAPLUS COPYRIGHT 2006 ACS on STN  
TI High-yield (meth)acrylate ester monomer preparation using alkali metal alkoxides as transesterification catalysts and bromide salts as polymerization inhibitors
- L5 ANSWER 14 OF 37 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Carbonylation process and supported rhodium catalysts for the preparation of carboxylic acids from alkenes
- L5 ANSWER 15 OF 37 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Complexes of the (1R)-(+)-camphor azine diphosphines Z,Z-3,3'-Ph<sub>2</sub>PnCl<sub>10</sub>H<sub>15</sub>=N-N=C<sub>10</sub>H<sub>15</sub>PxPh<sub>2</sub> and Z,Z-3,3'-Ph<sub>2</sub>PxCl<sub>10</sub>H<sub>15</sub>=N-N=C<sub>10</sub>H<sub>15</sub>PxPh<sub>2</sub> (x = exo, n = endo) with Group 6 metal carbonyls: crystal structures of the ligands and fac-[W(CO)<sub>3</sub>(E,Z-Ph<sub>2</sub>PxCl<sub>10</sub>H<sub>15</sub>=N-N=C<sub>10</sub>H<sub>15</sub>PxPh<sub>2</sub>)]
- L5 ANSWER 16 OF 37 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Formation of Bromocarbenium Bromide Ion Pairs in the Electrophilic Bromination of Highly Reactive Olefins in Chlorinated Aprotic Solvents
- L5 ANSWER 17 OF 37 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Continuous process for the manufacture of terephthalic acid of monomer purity by liquid-phase catalytic oxidation of p-xylene
- L5 ANSWER 18 OF 37 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Continuous process for the manufacture of isophthalic acid of monomer purity by liquid-phase catalytic oxidation of m-xylene
- L5 ANSWER 19 OF 37 CAPLUS COPYRIGHT 2006 ACS on STN  
TI The effect of pyridine ring functionalization on the conductivity of crosslinked CO-poly(styrene-4-vinylpyridine) derivatives
- L5 ANSWER 20 OF 37 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Effect of LiClO<sub>4</sub> and the nature of the verdazyl indicator on the heterolysis rate of benzylidene bromide in acetonitrile
- L5 ANSWER 21 OF 37 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Face Selection in Additions to the Trigonal C<sub>2</sub> Site in Quaternized 5-Azaadamantane Derivatives
- L5 ANSWER 22 OF 37 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Charge Transfer Salts of Benzene-Bridged 1,2,3,5-Dithiadiazolyl Diradicals. Preparation, Structures, and Transport Properties of 1,3- and 1,4-[(S<sub>2</sub>N<sub>2</sub>C)<sub>6</sub>H<sub>4</sub>(CN<sub>2</sub>S<sub>2</sub>)] [X] (X = I, Br)
- L5 ANSWER 23 OF 37 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Temperature gradient batteries
- L5 ANSWER 24 OF 37 CAPLUS COPYRIGHT 2006 ACS on STN  
TI A chemical model for the Amoco "MC" oxygenation process to produce terephthalic acid

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L5 ANSWER 25 OF 37 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Method for the preparation of 4-alkoxy-2-halomethyl-4-methyltetrahydrofurans

L5 ANSWER 26 OF 37 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Development of the zinc/**bromine** battery at Johnson Controls, Inc.

L5 ANSWER 27 OF 37 CAPLUS COPYRIGHT 2006 ACS on STN  
TI **Bromine** surface treatment of photosensitive elastomeric flexographic printing plates

L5 ANSWER 28 OF 37 CAPLUS COPYRIGHT 2006 ACS on STN  
TI **Bromine** surface treatment of photosensitive elastomeric flexographic printing plates

L5 ANSWER 29 OF 37 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Metal bromides

L5 ANSWER 30 OF 37 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Commensurate Peierls transition in a quasi-one-dimensional compound: the **bromide salt** of tetrathiafulvalene (TTF)

L5 ANSWER 31 OF 37 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Production of inorganic chlorides and bromides

L5 ANSWER 32 OF 37 CAPLUS COPYRIGHT 2006 ACS on STN  
TI **Bromine**

L5 ANSWER 33 OF 37 CAPLUS COPYRIGHT 2006 ACS on STN  
TI **Bromine** addition to chloronorbornene derivatives

L5 ANSWER 34 OF 37 CAPLUS COPYRIGHT 2006 ACS on STN  
TI **Bromine** sanitization of waters

L5 ANSWER 35 OF 37 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Preparation of amines by catalytic reaction of terminal olefins with hydrogen bromide

L5 ANSWER 36 OF 37 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Bimolecular displacement reactions. I. Reaction of endonorbornanol and 7-norbornanol with triphenylphosphine and **bromine**

L5 ANSWER 37 OF 37 CAPLUS COPYRIGHT 2006 ACS on STN  
TI The reaction of **bromine** with 9-acetylfluorene

=> d 1,29,31 bib ab

L5 ANSWER 1 OF 37 CAPLUS COPYRIGHT 2006 ACS on STN  
AN 2006:36833 CAPLUS  
DN 144:110145  
TI Catalytic conversion of alkanes into liquid oxygenates  
IN Waycuilis, John J.  
PA USA  
SO U.S. Pat. Appl. Publ., 12 pp.  
CODEN: USXXCO  
DT Patent  
LA English  
FAN.CNT 1

PATENT NO.

KIND

DATE

APPLICATION NO.

DATE

-----  
 PI US 2006009662 A1 20060112 US 2004-750984 20040102  
 PRAI US 2004-750984 20040102

AB A process is described for converting an alkane into an oxygenated product by passing an alkane gas over a first fixed bed containing a higher valence **bromide salt** to produce an alkyl bromide, a hydrobromic acid, and a lower valence **bromide salt**. The alkyl bromide and hydrobromic acid are conveyed as a gas to a second fixed bed containing a metal oxide and are passed over the second fixed bed to produce the first **bromide salt** and the oxygenated product. The metal oxide in the second fixed bed is regenerated by passing oxygen over the second fixed bed producing the metal oxide and **bromine**. The **bromine** is conveyed as a gas from the second fixed bed to the first fixed bed. The first **bromide salt** of the first fixed bed is regenerated by passing the **bromine** over the first fixed bed producing the first **bromide salt**. Process flow diagrams are presented.

L5 ANSWER 29 OF 37 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 1981:142066 CAPLUS  
 DN 94:142066  
 TI Metal bromides  
 IN Keblys, Kestutis A.  
 PA Ethyl Corp., USA  
 SO U.S., 4 pp.  
 CODEN: USXXAM  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4248850	A	19810203	US 1979-15067	19790226
PRAI	US 1979-15067	A	19790226		

AB Metal bromides, especially alkali metal and alkaline earth bromides, are manufactured from the basic metal compound and Br<sub>2</sub> in the presence of HCHO added as a reducing agent. Thus, a slurry of slaked lime 151.9 g in tap water 221.1 g was treated initially with a portion of a 37.4% formalin solution 80.1 g and then the Br<sub>2</sub> (303.6 g) flow was started, both reagents being added simultaneously but the HCHO at a slightly faster rate. After filtration at 90° the product was 642 g of solution at pH 5.6.

L5 ANSWER 31 OF 37 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 1980:474902 CAPLUS  
 DN 93:74902  
 TI Production of inorganic chlorides and bromides  
 AU Lebedev, O. V.; Artamonov, Yu. F.  
 CS USSR  
 SO Khimicheskaya Promyshlennost (Moscow, Russian Federation) (1980), (1), 35-6  
 CODEN: KPRMAW; ISSN: 0023-110X  
 DT Journal  
 LA Russian  
 AB An apparatus and method are proposed for the synthesis of highly concentrated or saturated solns. of metal bromides and chlorides by the reaction of a metal salt or hydroxide with NH<sub>3</sub> and Br<sub>2</sub> or Cl<sub>2</sub>. The method was used for the preparation of bromides and chlorides of NH<sub>4</sub>, Li, Na, K, Rb, Mg, Ca, Ba, Gd, Cu, Zn, Pb, Y, Cd, Fe, and Al.

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COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	29.04	391.78
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	ENTRY	SESSION
CA SUBSCRIBER PRICE	-2.25	-2.25

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